

SOV/91-59-6-13/33

The Accidental Disconnection of a Synchronous Compensator

the float relay. The oil tank was provided with an air vent in the lid, whereupon the accidental disconnections of the synchronous compensator by the float relay ceased to occur. Figure 1 shows the lubrication system of the above compensator. There is 1 diagram.

Card 2/2

SOV/91-59-9-11/33

AUTHOR: D'yachenko, I.I., Technician, Kolendovskiy, A.S.,  
Engineer

TITLE: Disconnecting Failures of Type VM-35 Circuit Breakers

PERIODICAL: Energetik, 1959, Nr 9, p 19 (USSR)

ABSTRACT: The authors describe a failure of a VM-35, 35 kv,  
pre-war, oil-filled circuit breaker with a UGP-31 drive.  
This circuit breaker did not react to the remote con-  
trols. When the drive cover was removed for manual  
operation of the circuit breaker, a spontaneous dis-  
connection was observed. When checking the circuit  
breaker, it was found that the rest (bolt), screwed  
into the cover of the center phase of the circuit  
breaker, was loose and had been bent. This led to a  
transition of the drive mechanism levers beyond the  
dead center in switched-on position. The authors state  
that rests (bolts) should be installed for all other  
phases in the drive covers of VM-35 circuit breakers

Card 1/2

SOV/91.59-9-11/33

Disconnecting Failures of Type VM-35 Circuit Breakers  
during routine maintenance work.

Card 2/2

D'YACHENKO, I.I., tekhnich; KOLENDOVSKIY, A.S., inzh.

Strengthening VM-35 and VM-25D oil circuit-breakers. Energetik  
8 no.4:24-25 Ap '60. (MIRA 13:8)  
(Electric circuit breakers)

MUSATOV, T.P., inzh.; KOLENOVSKIY, A.S., inzh.

Increased safety measures for work on electric power distribution  
devices. Energetik 10 no.2:18-20 F '62. (MIRA 15:2)  
(Electric power distribution—Safety measures)

MUSATOV, T. P., inzh.; KOLENOVSKIY, A. S., inzh.

Concerning the operation of GRU 35-110 kv. line disconnecting  
switches operating in districts with air pollution. Energetik  
10 no.8:4-6 Ag '62. (MIRA 15:10)

(Electric cutouts)

(Electric power distribution—Equipment and supplies)

KOLENOVSKIY, M. G.

5

IVANOV, V.YE., ZELENSKIY, V.F., KOLENOVSKIY, M.G., KOLOMIYETS, L.D.

Impregnation of Graphite with Liquid Silicon in a vacuum.

Report submitted for the Conference on New Nuclear Materials Technology  
including Non-Metallic Fuel Elements (IAEA), Prague, 1-5 July 63

KROZER, S.; KOLENDOWICZ, A.

Nephelometry of polyvinyl chloride solutions. Polimery twora  
wielk 7 no.7/8:261-265 JI-Ag '62.

1. Zaklad Fizyko-Chemiczny, Instytut Tworzyw Sztucznych, Warszawa.



KOLENDOWICZ, Ryszard, mgr inż.

Electroresistance milling machine dynamometer. Mechanik 34 no.10:510-512 '61.

1. Politechnika, Warszawa.

BARDADIN, Kasimierz, ins.; KOLENDOWICZ, Ryszard, mgr ins.

Magnetic chucks. Mechanik 36 no.1:50-52 '63.

1. Koprotech, Warszawa.

KOLENDOWICZ, Tadeusz, dr inż.

Theoretical fundamentals of studies on bars of spatial models.  
Inz 1 bud 19 no.2:59-62 F '62.

1. Politechnika, Wrocław.

KOLENLOWICZ, Tadeusz, dr ins.

New types of deforming instruments for bar testing of spatial models. Ins 1 bud 19 no.3:95-99 Mr '62.

1. Politechnika, Wroclaw.

KOLENDOWICZ, Tadeusz

Model determination of static magnitudes in surface  
systems. Budown Gliwice no.11:1-78 '64.

DABROWSKI, Otton, doc. dr inż.; KOLENDOWICZ, Tadeusz, dr inż.

Protection against the collapse of the city hall building  
in Kłodzko. Inż i bud 21 no.8;286-288 Ag '64.

1. Technical University, Wrocław.

KOLENDOWSKI, J.

Kolendowski, J.; Dudek, W. "The Soviet SCB System of Signaling and Blocking in  
Mine Transportation" p. 51 (Wiesnosci Gornicza, Vol. 4, No. 2, Feb., 1953,  
Katowice)

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Congress,  
February, 1954, Uncl.

KOLENDOWSKI, Jerzy, dr., inż.

Equivalent circuits of direct current electric drives. Przegł  
elektrotechn 38 no.1:7-13 '62.



SZKLARSKI, Ludger; KOLENDOWSKI, Jerzy

General problems of statics and dynamics of electric drive.  
Rozpr elektrotech 8 no.3/4:527-561 '62.

1. Katedra Elektrotechniki Gorniczej, Akademia Gorniczo-  
Hutnicza, Krakow.

KOLENDOWSKI, Jerzy

Structure and automatic control of isomorphic mining machinery.  
Archiw gorn 9 no.3:301-324 '64

KOLENDOWSKI, Jerzy, dr inż.; KRUPA, Lucjan, mgr inż.

Automation of coal cutters. Przegl gorn 19 no.1:25-35 Ja '63.

KOLENDOWSKI, Jerzy, dr inż.

Structure of working drives of a bucket wheel excavator. Przegł  
gorn 19 no.2:93-99 F '63.

KOLENDOWSKI, Jerzy, dr. inż., adiunkt; MARKIELOWSKI, Jan, mgr inż., st.  
asystent

Electromagnetic powder clutches designed in the School of  
Mining and Metallurgy. Przegl mech 22 no.22: 65-69I, 1963.

1. Katedra Elektrotechniki Gorniczej, Akademia Gorniczo-Hutnicza,  
Krakow (for Kolendowski) 2. Katedra Maszyn i Pomiarow Elek-  
trycznych, Akademia Gorniczo-Hutnicza, Krakow.

JASINSKI, Kazimierz; KOLENIEWSKI, Jozef; ADAMIAX, Stanislaw; WOLSKA, Emilia.

Effect of hydrochlorothiazide on water-mineral and acid-base metabolism in certain edematous conditions. Polski tygod. lek.  
16 no.17:626-630 24 Ap '61.

1. Z I Kliniki Chorob Wewnetrznych A.M. w Poznaniu; kierownik: prof.  
dr Stefan Kwasniewski.

(CHLOROTHIAZIDE rel epds) (EDEMA ther)  
(WATER ELECTROLYTE BALANCE pharmocol)  
(ACID BASE EQUILIBRIUM pharmocol)

**"APPROVED FOR RELEASE: 06/19/2000**

**CIA-RDP86-00513R000723730005-4**

**APPROVED FOR RELEASE: 06/19/2000**

**CIA-RDP86-00513R000723730005-4"**

MASLIY, Konstantin Yakovlevich, novator proizvodstva; BELOBORODOV,  
I.Ye., inzh., retsehzent; KOLENIKO, Yu.M., inzh., red.;  
DUGINA, N.A., tekhn. red.

[Comprehensive plans for increasing labor productivity] Kom-  
pleksnye plany povysheniia proizvoditel'nosti truda. Moskva,  
Mashgiz, 1961. 29 p. (Biblioteka rabochego-mashinostroitel'ia.  
Seria: Peredovaiia tekhnika - osnova kommunisticheskogo truda,  
no.6) (MIRA 15:6)

1. Rukovoditel' brigady kommunisticheskogo truda Ural'skogo zavoda  
tyazhelogo mashinostroyeniya (for Masliy).

(Sverdlovsk—Machinery industry)  
(Socialist competition)



LOKHOV, D.D.; KOLENETSKAYA, V.A.

On the problem of "cytomegaly" in infants. Arkh.pat. 21  
no.11:90-95 '59. (MIRA 13:12)

(VIRUS DISEASES)

I 21148-66

ACC NR: AP6010958

SOURCE CODE: CZ/0080/65/000/004/0095/0096

AUTHOR: Kolenicka, Jan (Engineer)

ORG: Technical College, Brno (Vysoke uceni technicke)

TITLE: Alfa teaching machine

SOURCE: Automatizace, no. 4, 1965, 95-96

TOPIC TAGS: teaching machine, training equipment

ABSTRACT: The article describes the parameters of the Alfa teaching machine, which is suitable for the teaching of elementary subjects, working methods and factual data. Orig. art. has: 3 figures. [JPRS]

SUB CODE: 05 / SUBM DATE: none

Card 1/1 ULR

UDC: 371.674: 338.2

KOLENIKOV, G. S.; KORSHAK, V. V.

Alkanes

Mechanism of rearylation of dearyl alkanes. Dokl. AN SSSR 85 No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1957, Uncl.

2

KOLENIN, A. A.

KOLENIN, A. A.....Moskva - promyshlennyi tsentr. 40 p. (Geografiia v shkole,  
1947, no. 2).

DLC: Unclass.

SO: LC, Soviet Geography, Part II, 1951/Unclassified

KOLENIN, A. A.

Cities and Towns - Bibliography

Study of the cities of the U. S. S. R in geography lessons of the 7th and 8th classes.  
Geog. v shkole No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1957, Uncl.  
2

1. KOLENKIN, A. A.
2. USSR (600)
4. Ural Mountain Region - Cities and Towns
7. Lessons on the cities of the Ural region.  
Geog.v shkole no. 6, 1952

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

KOLENKH, A.A.

Studying the industrial geography of the U.S.S.R. in the 8th grade. Geog.  
v shkole no.4:38-48 J1-Ag '53. (MLA 6:6)

(Geography, Economic - Study and teaching)

XOLENKIN, A.A.

Course in the 8th class on the subject "machine building."  
Geog. v shkole no.4:56-59 JI-Ag '54. (MLBA 7:8)  
(Machinery)



KOLENIN, A.A., dots.; KURAEV, N.F., dots.; DEMUSHKIN, V.A., kand. geogr.  
nauk; NIKOLAYEV, B.L., tekhn. red.

[Programs of pedagogical institutes; practical work in regional  
studies for geography faculties of pedagogical institutes] Program-  
my pedagogicheskikh institutov; praktikum po kraevedcheskoi rabote  
dlia geograficheskikh fakul'tetov pedagogicheskikh institutov.  
[Moskva] Uchpedgiz, 1956. 5 p. (MIRA 11:9)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye vysshikh i  
srednikh pedagogicheskikh uchebnykh svedeniy.  
(Geography--Study and teaching)

~~KOLLEK~~, A.A.; KRYLOV, N.S.

Excursions to all-Union industrial and agricultural exhibitions  
as part of the study of economic geography. Geog.v shkole 20  
no.4:30-39 J1-Ag '57. (MIRA 10:7)

(Geography. Economic--Study and teaching)  
(School excursions)

KOLENKINA, L. V.

Caddis Flies

Nourishment of larvae of certain caddis flies (Trichoptera). Trudy Gidrobiol. obshch.,  
3, 1951

9. Monthly List of Russian Accessions, Library of Congress, November 1957, Uncl.

2

*Kolenkina, T. A.*

137-1957-12-25433

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 354 (USSR)

AUTHORS: Yellin, I. A., Sheydin, I. A., Kolenkina, T. A.

TITLE: Methods and Results of Tests for Friction and Wear of Materials Employed in the Frictional Unit of a Deadwood Assembly (Metodika i rezul'taty ispytaniy na treniye i iznos materialov dlya uzla treniya deydvnogo ustroystva)

PERIODICAL: Tr. Tsentr. n.-i. in-ta morsk. flota, 1956, Nr 5, pp 43-55

ABSTRACT: A description of procedures employed in an investigation of wear of deadwood bearing materials by means of samples (S) made of wood-layer plastics (WLP) or guaiac, under sliding friction, in conjunction with materials used in coating of propeller shafts, which were in the shape of rollers (R) made of bronzes BrOTs 10-2, BrOTsS 5-5-5, and stainless austenite steel lKh18N9T. The S, which was composed of three parts, was secured in an adapter-yoke, in a manner ensuring maximum perpendicularity of surface fibers of each member of the S, with respect to the axis of rotation of the contacting R. In order to ensure equal pressure upon the S, pressure bolts were tightened with a calibrated torque wrench. The friction surfaces (the sides)

Card 1/2

137-1957-12-25433

Methods and Results of Tests for Friction and Wear of Materials (cont.)

of the S were machined to a class 8 finish on a lathe; the contact-surface of the R had a class 9 finish. When ready to be tested the S and the R were broken in together, under a minimum load of  $10 \text{ kg/cm}^2$ , which was then raised to  $50 \text{ kg/cm}^2$ . The extent of wear of the S was determined by the difference of its linear dimensions, measured with an accuracy of  $1 \mu$  on an IZV-1 distance gage, before and after each test. The wear of the R was determined by the difference in its weight, measured before and after the test with an accuracy of  $\pm 0.0002 \text{ g}$ . The surface finish of the S was inspected by means of a binocular microscope MIS-11, with the aid of special casts. Results of comparative wear- and friction tests are shown for materials investigated on the "MI" machine, in which lubrication was accomplished by salt water, and the speed of sliding was  $0.5 \text{ m/sec}$ . It is shown that R's made of stainless steel are the most durable, but that in that case the guaiac and the WLP are subjected to greater wear than when tested in conjunction with bronze R's, particularly under high specific pressures. Recommendations are given for the selection of coating metal for propeller shafts, and of material for the deadwood assembly.

L.G.

Card 2/2

1. Bearings-Materials-Test methods 2. Bearing-Materials-Test results 3. Bearings-Materials-Testing equipment

S/081/61/000/020/060/089  
B102/B147

AUTHORS: Bershteyn, V. A., Yelin, I. A., Kolenkina, T. A.

TITLE: Epoxy-plastic coatings for corrosion protection of ship structures

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 20, 1961, 263 - 264, abstract 20I195 (Sudostroyeniye, no. 5, 1961, 41 - 45)

TEXT: In order to protect structural elements in shipbuilding against corrosion, reinforced epoxy coatings with low-temperature (15 - 25°) solidification were proposed and tested under natural conditions. The coatings were found to have good anticorrosive, dielectrical, and mechanical properties. [Abstracter's note: Complete translation.]

Card 1/1

BERSHTEYN, V.A., inzh.; YELIN, I.A., inzh.; KOLENKINA, T.A., inzh.

Epoxy coatings for the protection of structural ship elements  
against corrosion. Sudostroenie 27 no.5:41-45 My '61.

(MIRA 14:6)

(Ships—Corrosion)  
(Epoxy resins)

KOLENKO

Improving clothing manufacture and trade. Sov.torg. no.9:6-9  
S '57. (MLRA 10:8)

1.Nachal'nik Upravleniya trgovli promyshlennymi tovarami  
Ministerstva trgovli USSR.  
(Clothing industry)



**KOLENKO, A.**

Stocks and their standardization. Sov. torg. no. 7:18-22 J1 '58.  
(MIRA 11:7)

1. Nachal'nik Otdela tovarooborota Gosplana USSR.  
(Ukraine--Retail trade)  
(Stores and stock-room keeping)

~~VOLENKO, A.~~

Use of local commodity resources in the Ukraine. Sov. targ. 33  
no.8:17-19 Ag '59. (MIRA 12:11)

1. Nachal'nik otдела tovarooborota Gosplana USSR.  
(Ukraine--Manufactures)

KOLCHKO, A.

Planning the delivery of a greater selection of goods.  
Sov.torg. 33 no.8:12-15 Ag '60. (MIRA 13:8)

1. Nachal'nik otдела tovarooborota Gosplana USSR.  
(Ukraine--Commerce)

KOLENKO, A.

Let's expand direct contacts with industry. Sov.torg. 34, no.7:18-  
20 J1 '61. (MIRA 14:7)

1. Nachal'nik Otdela tovarooborota Gosplana USSR.  
(Ukraine--Wholesale trade)

KOLENKO, A.

Selection, quality and sale of clothing. Sov. torg. 35 no.3:  
18-20 Mr '62. (MIRA 15:3)

1. Nachal'nik otдела tovarooborota Gosplana USSR.  
(Clothing industry)

SAPEL'NIKOV, Ya.; GOLOVATYY, I.; GLAZUNOVA, V. aspirant, (Moskva); USTINOV, I.; KOLENKO, A.; KONDRATSKIY, A.; YEFREMOVA, L.; GORBACH, P., konstruktor (Moskva); BERGER, I., kand.ekon.nauk; KLEPIKOV, N.; SINYUTIN, V., kand.ekon.nauk; KORZHENEVSKIY, I., kand.ekon.nauk; PEREPLETCHIK, I.

Fiftieth anniversary of "Pravda." Sov. torg. 35 no.5:38-42  
 My '62. (MIRA 15:5)

1. Nachal'nik Planovo-ekonomicheskogo upravleniya Ministerstva torgovli RSFSR (for Sapel'nikov).
  2. Nachal'nik planovogo otdela kurorttorga, g. Berdyansk (for Golovaty).
  3. Moskovskiy ordena Trudovogo Krasnogo znameni institut narodnogo khozyaystva im. G.V. Plekhanova (for Glazunova).
  4. Nachal'nik Otdela tovarooborota Gosplana USSR, g. Kiyev (for Kolenko).
  5. Glavnyy bukhgalter Zhitomirskogo gorodskogo torga po torgovle promptovarami (for Kondratskiy).
  6. Starshiy khudozhnik Obshchesoyuznogo doma modeley (for Yefremova).
  7. Zaveduyushchiy sektorom Ukrainskogo nauchno-issledovatel'skogo instituta torgovli i obshchestvennogo pitaniya (for Berger).
  8. Zaveduyushchiy sektorom Nauchno-issledovatel'skogo instituta torgovli i obshchestvennogo pitaniya, g. Moskva (for Sinyutin).
  9. Zaveduyushchiy sektorom Ukrainskogo nauchno-issledovatel'skogo instituta torgovli i obshchestvennogo pitaniya, g. Kiyev (for Korzhenevskiy).
- (Russian newspapers)

KOLENKO, A.A.; BEGLOV, V.A., inventor.

Device for pressing naphthalene. Vest.mash. 33 no.6:78-79 Je '53.  
(MLRA 6:6)  
(Naphthalene)

A description of a press for removing liquids from the naphthalene mass coming from crystallizers in by-product coking plants.

KOLEN'KO, A. B.

PA 47/49T48

USSR/Medicine - Anesthesia, Local and Jan 49

Regional  
Medicine - Conjunctiva, Physiology

"New Method of Local Anesthesia of the Con-  
junctiva," A. B. Kolen'ko, Chair of Ophthalmol-  
ogy, Moscow Med Inst, Min of Pub Health, USSR,  
1 p

"Vest Oftalmol" No 1

Oculists have noticed that in many cases ad-  
ministration of new biologicals produced un-  
favorable reaction in the conjunctiva. Most  
frequent occurrence is flocculation. Several  
methods have been tried. Most successful is  
47/49T48

USSR/Medicine - Anesthesia, Local and Jan 49  
Regional (Contd)

complete abstention from further administration  
of the biological solution. Suggests a meth-  
od of local anesthesia for temporary relief. A  
3% calcium-chloride solution is used. Repeat-  
ed administrations are necessary.

47/49T48



Kolenko, A. B. EXCERPTA MEDICA SEC. 12 Vol. 12/8 Ophth. Aug. 58

1464. OCULAR DISORDER IN RADIATION ILLNESS (Russian text) - Kolenko  
A. B. - OFTALM. ZH. 1958, 5 (264-271)

The eyes can be affected by ionizing radiation in 3 ways: (1) direct incidence of radioactive substances on the conjunctival sac; (2) disorders arising from swallowing or inhaling radiating substances; (3) disorders resulting from radiation at a distance. Four periods can be distinguished in the course of acute disorders: (a) excitatory phase; (b) period of relative well-being; (c) period of pronounced signs and symptoms; (d) period of recovery. A description of the clinical features and pathological changes in each period is given. Chronic irradiation with infra-red, X- and other rays leads to the formation of radiation cataracts. The dose for rabbits is 850-900 r., and for man 2500-4500 r. The latent period in man is from 9 months to 12-13 yr. Neutrons act 30-40 times as powerfully as X-rays. Radiation cataracts of varying aetiology exhibit similar clinical and morphological features. A description is given of the clinical picture, histopathological changes and therapy of radiation cataracts, and a series of prophylactic measures is recommended. (S)

*KOLEN'KO, A. B.*

ARUTYUNOV, V.Ya., prof.; BERKOVICH, I.M., doktor med.nauk; BUNIN, K.V., prof.  
 VELIKORETSKIY, A.N., prof.; GAMBURG, R.L., doktor med.nauk; GLASKO,  
 N.M.; ZVYAGINTSEVA, S.G., doktor med.nauk; IVENSKAYA, A.M., kand.med.  
 nauk; KALUGINA, A.N., kand.med.nauk; KAMINSKAYA-PAVLOVA, Z.A., prof.  
 KVATSR, Ye.I., prof.; ~~KOLEN'KO, A.B.~~ prof.; KOSSYURA, M.B., kand.  
 med.nauk; KRAVTS, N.M., doktor med.nauk; KRISTMAN, V.I., kand.med.  
 nauk; KRUIHKOV, V.A., dotsent; LIKHACHEV, A.G., prof.; LUKOMSKIY, I.G.,  
 prof.; MASHKOVSKIY, M.D., prof.; ROZENTAL', A.S., prof.; SEMYSKIY,  
 M.Ya. [deceased], prof.; TURETSKIY, M.Ya., kand.med.nauk; KHRISTIN,  
 Ye.Ye., dotsent; RUDINA, Kh.L., kand.med.nauk; SHABANOV, A.N., prof.;  
 red.; BONDAR', Z.A., red.; ZAKHAROVA, A.I., tekhn.red.

[Medical handbook for feldshers] Meditsinskii spravochnik dlia  
 fel'dsherov. Izd. 6-oe, perer. i dop. Moskva, Gos. izd-vo med.  
 lit-ry, 1957. 899 p. (MIRA 10:12)  
 (MEDICINE--HANDBOOKS, MANUALS, ETC.)

KOLEN'KO, A.B.

"Diseases of the Organs of Sight in Radiation Sickness," by  
Prof A. B. Kolen'ko, Ministry of Health USSR, Oftalmologich-  
eskiy Zhurnal, Vol 11, No 5, 1956, pp 264-271

The article gives signs and symptoms of diseases of the eye in radiation sickness together with methods of treatment, in both the various stages of acute radiation sickness and chronic radiation sickness. The treatment of radiation cataract is also discussed.

In the case of radiation cataract, progression of the cataract was delayed in experimental X-ray cataract in rabbits. (U)

Sym. 1345

KOLEN'KO, A.B., prof.

Pathogenesis and therapy of cataracts caused by radiation. Ort.  
zhur. 14 no.4:195-200 '59. (MIRA 12:10)

1. Iz kafedry glaznykh bolezney (sav. - prof.A.B.Kolen'ko)  
Kalininskogo meditsinskogo instituta.  
(CATARACT) (RADIATION--PHYSIOLOGICAL EFFECT)

KOLEN'KO, A.B., prof.

Treatment of blepharitis with an infusion of marigold. Oft. zhur.  
16 no.1:29-32 '61. (MIRA 14:2)

1. Iz kafedry glaznykh bolezney (zav. - prof. A.B.Kolen'ko)  
Kaliningradskogo meditsinskogo instituta.  
(EYELIDS—DISEASES) (MARIGOLD—THERAPEUTIC USE)

KOLENKO, A.Z.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr. 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
Gareyev, B.Z.		
Arakelyan, U.G.		
Bychkova, N.F.		
<u>Kolenko, A.Z.</u>	"Michurinian Varieties of Fruit Trees in Kirgizia"	Kirgis Affiliate, Academy of Sciences USSR
Lashin, M.I.		
Kuzema, V. G.		
Kryachkov, P.Ya.		

SO: W-30604, 7 July 1954

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**CIA-RDP86-00513R000723730005-4"**

REGEL', A.R., doktor fiz.-matem. nauk; KOLENKO, Ye.A., kand. tekhn. nauk

Thermoelectric cooling and its practical uses. Vest. AN  
SSSR 34 no.5:86-92 My '64. (MIRA 17:6)

KOLENKO, I.P.; KOZLOV, V.M.

Analysis of products extracted from resinous stump wood with  
bensine. Gidroliz. 1 lesokhim, prom. 9 no.8:6-7 '56. (MLRA 10:2)

1. Laboratoriya lesokhimii Ural'skogo filiala Akademii nauk  
SSSR.

(Gums and resins--Analysis)

KOLBENKO, I.P.; KOLLOV, V.N.

Extraction of resinous substances from fresh-tar-impregnated  
stump wood by organic solvents. Izv. Sib. otd. AN SSSR no.8:103-113  
'58. (MIRA 11:10)

1. Ural'skiy filial AN SSSR.  
(Gums and resins) (Extraction (Chemistry)) (Wood--Chemistry)



Kolenko, I.; Kozlov, V.

Extraction of resin substances from tar-impregnated wood by organic solvents.  
p. 175.

BIOLOGICHESKAJA NAUKA: SEISKOMU I LASNOMU. (Latvijas PSR Zinatnu akademijs.  
Biologijas Zinatnu nodala) Riga, Latvia, No. 16, 1958. In Russian.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 8,  
August, 1959.  
Uncl.

KOLENKO, I. P., Candidate of Tech Sci (diss) -- "Investigation of the process of extracting tarry substances from tar-impregnated wood of various degrees of maturity, using organic solvents". Sverdlovsk, 1959. 14 pp (Min Higher Educ USSR, Ural Forestry Engineering Inst), 150 copies (KL, No 21, 1959, 115)

KOLENKO, I.P., KOZLOV, V.N.

Distribution of tarry matters in the solution outside and  
inside the chips during extraction by solvents. Trudy Inst.  
khim. UFAN SSSR no.5:3-23 '59. (MIRA 13:6)  
(Wood--Chemistry) (Extraction (Chemistry))

KOLENKO, I.; KOZLOV, V.

Investigation of the process of extraction of stump wool. Tr. from the Russian. p. 1

SYLWAN (Wydział Nauk Rolniczych i Lesnych Polskiej Akademii Nauk i Polskie  
Towarzystwo Lesne) Warszawa, Poland. Vol. 103, no. 3, Mar 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 9, September 1959.  
Uncl.

KOZLOV, V.N.; KOLENKO, I.P.

Obtaining binding materials for wood particle boards on the basis  
of wood tar phenols. Trudy Inst.khim.UFAN SSSR no.6:71-78 '61.

(MIRA 16:2)

(Hardwood)

(Binding materials)

(Phenols)

KOLENKO, L.I.

110

PHASE I BOOK EXPLOITATION

807/6181

Ural'skoye noveshchaniye po spektroskopii. 3d. Sverdlovsk, 1960. Materialy (Materials of the Third Ural Conference on Spectroscopy) Sverdlovsk, Metallurgizdat, 1962. 197 p. Errata slip inserted. 3000 copies printed.

Sponsoring Agencies: Institut fiziki metallov Akademii nauk SSSR. Komissiya po spektroskopii; and Ural'skiy dom tekhniki VSNTO.

Eds. (Title page): G. P. Skorniyakov, A. B. Shayevich, and S. G. Bogomolov; Ed.: Gennadiy Pavlovich Skorniyakov; Ed. of Publishing House: M. L. Kryzhova; Tech. Ed.: M. T. Mal'kova.

PURPOSE: The book, a collection of articles, is intended for staff members of spectral analysis laboratories in industry and scientific research organizations, as well as for students of related disciplines and for technologists utilizing analytical results.

Card 1/15

Materials of the Third Ural Conference (Cont.)

80V/6181

**COVERAGE:** The collection presents theoretical and practical problems of the application of atomic and molecular spectral analysis in controlling the chemical composition of various materials in ferrous and nonferrous metallurgy, geology, chemical industry, and medicine. The authors express their thanks to G. V. Chentsova for help in preparing the materials for the press. References follow the individual articles.

**TABLE OF CONTENTS:**

Foreword

**PART I**

Sherstkov, Yu. A., and L. P. Maksimovskiy. Investigation of the dependence of the total intensity of spectral lines on the concentration of elements in an arc-discharge plasma

3

4

Card 2/15

Materials of the Third Ural Conference (Cont.)

SOV/6181

Shchebleva, V. P. Spectral analysis of manganese ore, titanium concentrate, and weld deposits

125

Narbutovskikh, T. S., D. Ye. Katkova, and A. P. Zelenkina. Spectral determination of cadmium in the products of hydrometallurgical reprocessing of sublimates from copper smelters

126

Prokhorov, V. G. Arbitrary standard method

127

Kolenko, L. I., and P. V. Pokrovskiy. Determination of small amounts of beryllium in granitoids

129

Trayanova, M. V. Quantitative spectrographic determination of lead in zircons and monazites

131

Zotin, M. A., and A. M. Shavrin. Spectral-analytical determination of nickel in ores by the dilution method

133

Card 10/15



POKROVSKIY, P.V.; TORMOSOVA, G.F.; KOLENKO, L.I.

Weinschenkite from the Central Urals. Dokl. AN SSSR 162 no.1:173-175  
My '65. (MIRA 18:5)

1. Institut geologii Ural'skogo filiala AN SSSR. Submitted  
December 21, 1964.

L 38712-66 EWT(m)/LWP(t)/ETI LJP(c) JD/JG/GD

ACC NR: AT6013545

(A)

SOURCE CODE: UR/0000/65/000/000/0115/0119

AUTHOR: Kolenko, L. I

ORG: None

TITLE: A spectral method for determination of rare-earth elements in monazite and orthite without chemical preparation 29  
B+1

SOURCE: Ural'skoye soveshchaniye po spektroskopii. 4th, Sverdlovsk, 1963. Materialy, Moscow, Izd-vo Metallurgiya, 1965, 115-119 27

TOPIC TAGS: rare earth element, mineral, spectrum analysis, scandium, erbium, sodium chloride

ABSTRACT: The author considers the possibility of using repeated sodium chloride dilution of rare-earth minerals as a basis for spectral analysis to eliminate interference between the spectral lines of the base material and those of the element to be determined. Scandium and erbium were used as the internal standard and the analysis was done on a diffraction spectrograph with a linear dispersion of 0.28 mμ/mm. The mixture to be analyzed was poured into a cup 2 mm in diameter and 5 mm deep hollowed out in a carbon electrode. The upper electrode was sharpened to a point. The interelectrode distance was 4-5 mm with an arc current of 10 a. The proposed method

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ACC NR: AT6013545

was used for analysis of monazite and orthite. The line pairs used for spectral analysis are tabulated. Orig. art. has: 3 tables. 0

SUB CODE: 20/ SUBM DATE: 06Jul65/ ORIG REF: 007/ OTH REF: 004

Card 2/25W

VOLENKO, S.

Report on the Geological Survey of Slovenia from its founding to 1952. p. 262. (LJUBIJANA, Vol. 1, 1953.)

SO: Monthly List of East European Accessions. (FEAL, LC, Vol. 4, No. 6, June 1955, Uncl.

GRUTMAN, R.; KOLENKO, V.

Greater power for directors of enterprises. Fin. SSSR 18 no.5:69-  
76 My '57. (MIRA 10:6)

1. Nachal'nik finansovogo otdela Leningradskogo zavoda "Elektrosila"  
imeni Kirova (for Grutman). 2. Zamestitel' nachal'nika planovogo  
otdela zavoda "Elektrosila" (for Kolenko).  
(Industrial management)

KOLENKO, Ya.A.; YUR'YEV, V.G.

Investigation of some vacuum properties of epoxide resin. Zhur.  
tekh.fiz. 28 no.10:2259 0 '58. (MIRA 11:12)  
(Resins, Synthetic) (Polymerisation)

120-3-37/40

AUTHOR: Kolenko, Ye. A. *Sr. Engr.*

TITLE: A High Vacuum Trap with Thermoelectric Cooling (Vysokovakuumnaya lovushka s termoelektricheskim oshlakhdeniyem)

PERIODICAL: Pribury i Tekhnika Eksperimenta, 1957, Nr 3, p.112 (USSR)

ABSTRACT: The essential part of the trap is a semiconductor battery which produces a temperature of about  $-30^{\circ}\text{C}$  on the condensation surfaces. The surfaces are shaped so that any molecule of the oil vapour from the pump must undergo three reflections before it can enter the evacuated volume. This should give a practically complete freeze-out of the residual oil vapours. A photograph of the trap is shown in Fig.2 and a sectional drawing in Fig.1. There are 2 figures and no tables or references.

ASSOCIATION. Institute for Semiconductors, AS USSR  
(Institut poluprovodnikov AN SSSR)

SUBMITTED: January 30, 1957.

AVAILABLE: Library of Congress.

Card 1/1

1. Semiconductor batteries-Application 2. Traps-Vacuum

KOLENKO, Ye. A.

24(6) 9(3.4) **PHASE I BOOK REPRODUCTION** 807/303

Poluprovodniki v nauke i tekhnike, t. 2. (Semiconductors in Science and Technology, Vol. 2) Moscow, Izd-vo AN SSSR, 1958. 658 p. 17,000 copies printed.

Comp. Ed.: A.F. Ioffe; Tech. Ed.: R.S. Porvov.

**REMARKS:** This collection of articles is intended for scientists, engineers and technicians.

**CONTENTS:** The collection, published by the Semiconductor Institute, Academy of Sciences, USSR, under the supervision of Academician A.F. Ioffe, contains, Parts II and III of a two-volume work on semiconductors. Part II completes the material on semiconductor devices in Volume I, and Part III describes various semiconductor devices, in crystal counters, the did not permit inclusion of such subjects as thermistors, semiconductor catalyzers, materials for atomic batteries, and various other applications of semiconductors for complex cathodes and diodes. The article by the American scientists V. Jensen and A. Lark-Devist is devoted to the theory of low temperature semiconductors, the article by scientist A. Bush and V. Winkler fills a gap in the Soviet literature on methods of investigating semiconductor properties. These subjects will be dealt with exhaustively in a proposed third volume. References appear separately after each article.

# **TABLE OF CONTENTS:**

Ch. II. **Poluprovodniki**, Ye. A. Kolenko. Thermoelectric Refracting Devices. The author explains the theory of the thermoelectric effect (also called the Peltier effect). In the USSR thermoelectric refrigerators are used.

The basis of the application of semiconductors was developed theoretically and in practice chiefly by and under A.F. Ioffe and by scientists and engineers of LPTI (later the Semiconductor Institute, USSR). The authors devote three chapters to materials suitable for thermoelectric elements. They describe new developments in the theory of thermoelectricity and explain methods of calculation for the design of semiconductor refrigerators. They review various types of semiconductor refrigerators developed as prototypes for miniature thermoelectric units (used mostly for space applications and stabilization), and semiconductor refrigerators developed recently for scientific research. They illustrate their application to experimental nuclear research. Examples of improved types of semiconductor refrigerators (working with intermediate stages with thermoelectric heating and cooling). There are 35 references, of which 24 are Soviet and 1 English.



KOLENKO, Ye. A., (Eng.)

"Thermoelectric Cooling and Its Application in Instrument Making"

(Use of Semiconductors in Instrument Making; Transactions of a Conference)  
Moscow, Mashis, 1958. 258 p.

KOLMENKO, Ye.

Thermoelectric cooling. IUn. tekhn. 3 no.11:23-26 N '58.

(Thermoelectricity)

(MIRA 11:12)

24(6)

AUTHORS:

Kolenko, Ye.A., Yur'yev, V.G.

SOV/57-28-10-23/40

TITLE:

Investigation of Some Vacuum Properties of Epoxide Resin  
(Issledovaniye nekotorykh vakuumnykh svoystv epoksidnoy smoly)

PERIODICAL:

Zhurnal tekhnicheskoy fiziki, Vol 28, Nr 10, pp 2259-2259 (USSR) 1958

ABSTRACT:

This is an investigation of some vacuum characteristics of epoxide resins free from filling substances with a polymerization temperature of 140° C. The vapor pressure at various temperatures was determined by the loss-of-weight method during an 8 hours' heating. At 20° C the vapor pressure amounts to  $2 \cdot 10^{-4}$  mm of mercury column. A protracted degassing of polymerized resins leads to a cessation of gas separation (the loss of weight was not determined). After the resin had been degassed at 150° C a mass spectrogram was recorded at 100° C. No peaks distinctive of the resin were found in this connection. The mass-spectrographical measurements were carried out by Ya.A. Yukhvidin. In the course of the investigations it was substantiated that epoxide resins after polymerization are vacuum resistant materials. The excellent adhesion properties of the resins make possible a production of high-vacuum joints with glass and with various other materials. There are 1 table and 2 references, 2 of which are Soviet.

Card 1/2

KOLENKO, Ye.A.; SHCHERBINA, A.G.; YUR'YEV, V.G.

Method of eliminating heat from semiconductor cooling devices.  
Zhur. tekhn. fiz. 28 no.11:2543-2545 N '58. (MIRA 12:1)  
(Semiconductors) (Cooling)

05466

SOV/120-59-3-37/46

AUTHORS: Kolenko, Ye. A., Protopopov, Kh. V., Fleyshman, D. G.,  
and Yur'yev, V. G.

TITLE: Thermoelectric Cooling of Photomultipliers  
(Termoelektricheskoye okhlazhdeniye fotoumnozhitel'ey)

PERIODICAL: Priboiy i tekhnika eksperimenta, 1959, Nr 3,  
pp 140-142 (USSR)

ABSTRACT: The device is seen in section in Fig 1; the cooler 11 consists of 80 junctions joined in series and embedded in epoxide resin. The cold ends are in contact with part 3, which touches the glass via springs 2. Cylinder 9 is of insulating material. The heat is removed by the chassis 4. The light enters through a hole in the chassis and cooler; the device is meant for use with star-followers. Fig 2 shows another model, in which the heat is removed by water; the device is meant for use in assays for natural  $^{14}\text{C}$ . The units consume 20 - 25 W and provide temperatures 30 - 35°C below room temperature (about -10°C at the photocathode) over volumes of some 800 cm<sup>3</sup>. The photocathode must be earthed in this system. Fig 3 shows the noise spectrum of an 11-stage multiplier relative to a solution of p-terphenyl (5 g/litre) at two temperatures. Fig 4

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05466

SOV/120-59-3-37/46

Thermoelectric Cooling of Photomultipliers

shows similar curves for four different types of multiplier; the cooler raises the efficiency of the system for  $^{14}\text{C}$  to about 90%. There are 4 figures and 4 references, 3 of which are Soviet and 1 English.

ASSOCIATION: Institut poluprovodnikov AN SSSR (Institute of Semiconductors, Academy of Sciences USSR)

SUBMITTED: May 7, 1958

Card 2/2

SOV/120-59-4-33/50

AUTHORS: Kolenko, Ye. A. and Yur'yev, V. G.

TITLE: A Hygrometer with Thermoelectric Cooling

PERIODICAL: Priory i tekhnika eksperimenta, 1959, Nr 4, pp 137-139 (USSR)

ABSTRACT: The most widely used method of measuring humidity is based on determination of the temperature at which dew condenses, known as the dew point. In a hygrometer described in the present paper (a photograph is shown in Fig 1 and a schematic circuit in Fig 2) the dew point is deduced from the change of the surface conductivity of a glass plate cooled by a semiconductor battery. The hygrometer consists of the following main components: 1) a cooling system; 2) a dew indicator; 3) a bridge based on the 6Zh1Zh valve; 4) a two-stage magnetic amplifier assembled by N. V. Sharygin; 5) a rectifier used to supply the bridge, the amplifier and the semiconductor battery; 6) micro-thermistors for temperature measurement; 7) a fan for drawing in the gas whose humidity is to be measured. The cooling system (Fig 3) consists of a semiconductor thermoelectric battery made of two elements

(9 mm<sup>2</sup> cross-section, 2mm height) and a radiator for removal of heat from the "hot" junctions of the battery. To reduce

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SOV/120-59-4-33/50

## A Hygrometer with Thermoelectric Cooling

the temperature fall between the "hot" junction of the thermoelectric battery and the surrounding air, the radiator surface is made somewhat larger ( $1000 \text{ cm}^2$ ) than that indicated by theoretical design calculations. This larger area ensures a greater efficiency of cooling by the battery. Under steady-state conditions and the optimum current through the battery, the "cold" junction is cooled to  $-11^\circ\text{C}$  (from  $+20^\circ\text{C}$ ) in 50 to 60 sec. When air is drawn through the instrument at 3 m/sec the thermal load on the thermoelectric battery is naturally greater than under steady-state conditions and a temperature of  $-10^\circ\text{C}$  is established at the "cold" junction. A glass plate of 2 mm width, 5 mm length and 0.2 mm thickness, is used as the dew indicator. A sputtered layer of platinum, with a central gap of 10-50  $\mu$  width, is deposited on the glass plate (Fig 4). Contact with the two portions of the platinum layer is made via fired silver electrodes. The glass plate is stuck to the semiconductor battery. When the battery cools down the glass plate so that a dew condenses

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SOV/120-59-4-33/50

A Hygrometer with Thermoelectric Cooling

on it, the layer of water, which then bridges the gap between the two portions of the platinum film, lowers sharply the resistance of the gap. In order to avoid the effects of the surrounding medium the battery and the plate are insulated by a special jacket and the gas whose humidity is to be measured is drawn through a special pipe. When dew condenses in the gap on the platinized glass plate the measuring bridge becomes unbalanced and a 30-40  $\mu$ A signal reaches the magnetic amplifier. The unbalance signal, amplified to 24 mA, opens a relay RKS which breaks the supply circuit of the semiconductor battery. The glass plate is then warmed by the surrounding air and the condensed moisture evaporates. When the moisture has evaporated, the relay closes and connects up the supply to the semiconductor battery and the process is repeated. The temperature which is the mean between the dew condensation and evaporation points is indicated by a thermistor MT-54 mounted directly below the glass plate. Temperature of the surrounding medium is measured by another thermistor placed in the stream of gas passing through the instrument. Sensitivity of the hygrometer depends on the width of the gap in the platinum film on the glass plate. When this width is 10  $\mu$  (corresponding to a resistance of 1-1.5 M $\Omega$

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SOV/120-59-4-33/50

A Hygrometer with Thermoelectric Cooling

when dry) the hygrometer records dew condensation several seconds earlier than observed by means of a microscope with a magnification of 119. Since the hygrometer sensitivity is governed primarily by the operation time of the amplifier and the relay, small gaps on the platinized glass plate are not necessary. Measurements during one condensation and evaporation cycle take 20-30 sec. The dew point is determined to within  $\pm 1^{\circ}\text{C}$ ; the scatter does not exceed  $0.5^{\circ}\text{C}$ . The hygrometer can be used to measure humidity of gases with a dew point from  $+20$  to  $-20^{\circ}\text{C}$ . It is not possible to measure humidity of drier gases since then water condenses as a solid film (ice) and the surface conductivity of the glass plate does not alter sufficiently sharply to produce a large enough signal. There are 5 figures and 7 references, 4 of which are Soviet and 3 English.

ASSOCIATION: Institut poluprovodnikov AN SSSR (Institute for Semiconductors, Academy of Sciences, USSR)

SUBMITTED: May 7, 1958.

Card 4/4

18(5,7)

SOV/135-59-9-16/23

AUTHOR: Kolenko, Ye. A., Engineer

TITLE: Brazing of Chromium Containing Alloys and Steels

PERIODICAL: Svarochnoye proizvodstvo, 1959, Nr 9, p 40 (USSR)

ABSTRACT: The author presents a method for brazing chromium which contains alloys of ferrous and non-ferrous metals, with the same material or other metals. The resulting joints are strong and vacuum tight. The brazing is done within an atmosphere of hydrogen. The method is based on the use of a special flux, which consists of nickel oxide ( $\text{Ni}_2\text{O}_3$ ). The watery suspension of this is put on the spot of brazing as a thin film. After that, a small plate or ring of solder is put on this spot. The heating is done in a hydrogen furnace at temperatures between 20 and 50°C. The table shows the chemical composition of several solders. There is 1 table.

ASSOCIATION: Institut poluprovodnikov AN SSSR (Institute for Semi-Conductors of AS USSR)

Card 1/1

KOLENKO, Ye.A.; SHCHERBINA, A.G.

Microtome table with thermoelectric cooling. Med.prom. 13  
no.3:47-48 Mr '59. (MIRA 12:5)

1. Institut poluprovodnikov AN SSSR.  
(MICROTOME)

ISAAKYAN, L.A.; KOLENKO, Ye.A.; SHCHERBINA, A.G.

Electrical apparatus for thermal stimulation of the skin. Fisiol.  
shur. 45 no.11:1388-1391 N '59. (MIRA 13:5)

1. From the U.S.S.R. Academy of Sciences Institute of Semi-Con-  
ductors and the department of general physiology, Institute of  
Experimental Medicine, Leningrad.  
(TEMPERATURE)

KOLENKO, Ye. A.

Cand Tech Sci - (diss) "Thermoelectric refrigerating devices."  
Leningrad, 1961. 22 pp; (Academy of Sciences USSR, Technical  
Physics Inst imeni A. F. Ioffe); 200 copies; free; list of  
author's works on pp 21-22; (KL, 5-61 sup, 190)

PHASE I BOOK EXPLOITATION

SOV/6391

Kolenko, Yevgeniy Andreyevich

Termoelektricheskiye okhlazhdayushchiye pribory (Thermoelectric Cooling Devices). Moscow, Izd-vo AN SSSR, 1963. 190 p.  
Errata slip inserted. 6500 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut poluprovodnikov.

Resp. Ed.: M.S. Sominskiy; Ed. of Publishing House: G.M. Aron;  
Tech. Ed.: R.A. Zamarayeva.

PURPOSE: The book is intended for a wide circle of engineering, technical, and scientific personnel concerned with the development and utilization of thermoelectric coolers.

COVERAGE: The fundamentals of thermoelectric physics and methods of designing thermoelectric coolers are discussed in this book. It gives the first systematic description of certain types of coolers developed in the USSR and used for various industrial and scientific

Card 1/7

# Thermoelectric Cooling Devices

SOV/6391

purposes. Special chapters are devoted to methods of heat dissipation from thermoelectric generators and power supply. The book is based on projects which were carried out primarily in the Institute of Semiconductors, Academy of Sciences, USSR and in other organizations during the period from 1956 up to 1961. The author thanks P.S. Vinogradova, G.M. Voronov, A.M. Ivanov, V.S. Kutogribovaya, T.V. Enken, A.G. Shcherbina, V.P. Rybal'chenko, M.A. Kaganov, I.G. Mushkin, A.F. Chudnovskiy, A.N. Voronin, H.M. Sher, S.P. Bardeyeva, I.A. Ioffe, and I.S. Lisker for their cooperation. There are 128 references: 84 Soviet (including 1 translation), 31 English, 5 Japanese, 1 French, 7 German. References are listed by chapter in the bibliography.

## TABLE OF CONTENTS:

Foreword

3

Introduction

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Card 2/7



KOLENKO, Ye.A., kand. tekhn. nauk

Semiconductor thermostat for laboratory uses. Vest. AN SSSR  
33 no.10:63-64 0 '63. (MIRA 16:11)

1. Institut poluprovodnikov AN SSSR.

"APPROVED FOR RELEASE: 06/19/2000

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**CIA-RDP86-00513R000723730005-4"**

KOLENKO, Ya.A.

High-vacuum traps with thermoelectric cooling. Biul. tekhn.-ekon.  
inform. Gos. nauch.-issl. inst. nauch. i tekhn. inform. 18 no.2:  
43-44 F '65. (MIRA 18:5)